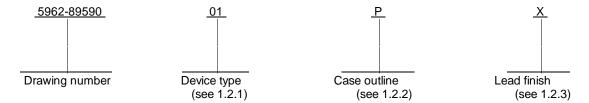
							DIE:		VISIO	INO									
LTR	+						RIPTIC						DATE (YR-MO-DA)			APPROVED			
A	requi	Updated boilerplate. Moved endurance and data retent requirements from Section 4 of drawing to Section 3 of changes throughout.								rial		94-0)5-31		M. A	\. Frye			
SHEET	A	A	A	A															
SHEET	A 14	A 15	A 16	A 17															
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1. SCOPE

- 1.1 <u>Scope</u>. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices."
 - 1.2 Part or Identifying Number (PIN). The complete PIN shall be as shown in the following example:



1.2.1 <u>Device type(s)</u>. The device type(s) shall identify the circuit function as follows:

Device type	Generic number	Circuit function	<u>Endurance</u>
01	24C04	512 X 8 serial EEPROM	10.000 cycles

1.2.2 Case outline(s). The case outline(s) shall be as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
Р	GDIP1-T8 or CDIP2-T8	8	Dual-in-line

- 1.2.3 <u>Lead finish</u>. The lead finish shall be as specified in MIL-STD-883 (see 3.1 herein). Finish letter "X" shall not be marked on the microcircuit or its packaging. The "X" designation is for use in specifications when lead finishes A, B, and C are considered acceptable and interchangeable without preference.
 - 1.3 Absolute maximum ratings. 1/

1.4 Recommended operating conditions.

Operating supply voltage	+4.5 V dc to +5.5 V dc
Case operating temperature range (T _C)	55°C to +125°C.
High level input voltage (V _{IH})	$V_{CC} \times 0.7 \text{ to } V_{CC} + 0.5 \text{ V dc}$
High level input voltage (V_{IH}) Low level input voltage (V_{IL})	1.0 V dc to V _{CC} x 0.3

- 1/ Unless otherwise specified, all voltages are referenced to ground.
- 2/ Maximum junction temperature shall not be exceeded except for allowable short duration burn-in screening conditions in accordance with method 5004 of MIL-STD-883.

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2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standards, and bulletin</u>. Unless otherwise specified, the following specification, standards, and bulletin of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

SPECIFICATION

MILITARY

MIL-I-38535 - Integrated Circuits, Manufacturing, General Specification for.

STANDARDS

MILITARY

MIL-STD-883 - Test Methods and Procedures for Microelectronics.

MIL-STD-973 - Configuration Management. MIL-STD-1835 - Microcircuit Case Outlines.

BULLETIN

MILITARY

MIL-BUL-103 - List of Standardized Military Drawings (SMD's).

(Copies of the specification, standards, and bulletin required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 <u>Order of precedence</u>. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing shall take precedence.

3. REQUIREMENTS

- 3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-STD-883 (see 3.1 herein) and herein.
 - 3.2.1 Terminal connections. The terminal connections shall be as specified on figure 1.
 - 3.2.2 <u>Truth table</u>. The truth table shall be as specified on figure 2.
 - 3.2.3 Block diagram. The block diagram shall be as specified on figure 3.
 - 3.2.4 <u>Case outline</u>. The case outline shall be in accordance with 1.2.2 herein.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full case operating temperature range.
- 3.4 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.

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		Conditions 1/		Lim	nits	_
Test	Symbol	$V_{CC} = 5 \text{ V } \pm 10\%$ -55° C \leq T _C \geq +125° C unless otherwise specified	Group A subgroups	Min	Max	Unit
Power supply current	lcc	f _{SCL} = 100 kHz	1,2,3		3.0	mA
Standby current	I _{SB}	V _{IN} = V _{CC}	1,2,3		200	μΑ
Input leakage current	ILI	V_{IN} = GND to V_{CC}	1,2,3		±10	μΑ
Output leakage current	ILO	V _{OUT} = GND to V _{CC}	1,2,3		±10	μΑ
Input low voltage	V _{IL} <u>2</u> /		1,2,3	-1.0	V _{CC} X	V
Input high voltage	V _{IH} <u>2</u> /		1,2,3	V _{CC} X	V _{CC} +	V
Output low voltage	V _{OL}	I _{OL} = 3 mA	1,2,3		0.4	V
I/O capacitance (SDA)	C _{I/O}	$f = 1.0 \text{ MHz}, V_{1/0} = 0 \text{ V}$ see 4.3.1c $3/4/$	4		8	pF
Input capacitance (A ₀ , A ₁ , A ₂ , SCL)	C _{IN}	f = 1.0 MHz, V _{IN} = 0 V see 4.3.1c <u>3</u> / <u>4</u> /	4		6	pF
Functional tests		see 4.3.1d	7, 8A,8B			
SCL clock frequency	fSCL		9,10,11		100	kHz
Bus free time	^t DHDL		9,10,11	4.7		μs
Start hold time	^t DVCL		9,10,11	4.0		μs
Clock low period	^t CLCH		9,10,11	4.7		μs

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

		Conditions 1/		Liı	mits	
Test	Symbol	$V_{CC} = 5 \text{ V} \pm 10\%$ -55° C \le T _C \ge +125° C unless otherwise specified	Group A subgroups	Min	Max	Unit
Clock high period	^t CHCL		9,10,11	4.0		μs
Start setup time	^t CHDL		9,10,11	4.7		μs
Data in hold time	^t CLDX		9,10,11	0		μs
Data in setup time	^t DVCH		9,10,11	250		ns
SDA/SCL rise time	t _R <u>5</u> /		9,10,11		1	μs
SDA/SCL fall time	t _F <u>5</u> /		9,10,11		300	ns
Stop setup time	^t CHDH		9,10,11	4.7		μs
SCL low to SDA out	^t CLQV		9,10,11	0.3	3.5	μs
Data out hold time	^t CLQX		9,10,11	300		ns
Write cycle time	t _{WR} <u>6</u> /		9,10,11	10		ms

1/ Equivalent ac test conditions:

Output load: $C_L = 100 \text{ pF}$ (see figure 5). Input pulse levels: $V_{CC} \times 0.1 \text{ to } V_{CC} \times 0.9$. Input and output timing levels: $V_{CC} \times 0.5$. Input rise and fall times: $\leq 10 \text{ ns}$ (see figure 4). V_{IL} minimum and V_{IH} maximum are for reference only and are not tested.

- Tested initially and after any design or process changes that affect that parameter, and therefore shall be guaranteed to the limits specified in table I.
- All pins not being tested are to be open.
- t_R and t_F as measured between the 10 percent and 90 percent points of the input pulse levels are periodically sampled and not 100-percent tested (see figures 4 and 6).

 6/ t_{WR} is the maximum time for the device to perform its internal write operation; from the system perspective this is a minimum.

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Device type	01
Case outline	Р
Terminal number	Terminal symbol
1	A ₀ (see note 1)
2	A ₁ (see note 3)
3	A ₂ (see note 3)
4	V _{SS}
5	SDA (see note 2)
6	SCL (see note 2)
7	TEST (see note 1)
8	V _{CC}

NOTES:

- 1. Pins marked with this notation symbol are reserved for manufacturer's test modes and should be tied to ground for proper device operation.
- 2. SDA and SCL require external pullup resistors.
- 3. A₁ and A₂ are used to set the least significant two bits of the six bit slave address. These inputs can be used static or driven. If used statically, they must be tied to V_{SS} or V_{CC} as appropriate. If driven, they must be driven by open collector outputs with resistor pullups to V_{CC}.

FIGURE 1. Terminal connections.

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Precondition R/W bit	SCL	SDA	Operation
N/A	High	_	Start condition
N/A	High		Stop condition
1	_	Data out	Read
0	_	Data in	Write

FIGURE 2. Truth table.

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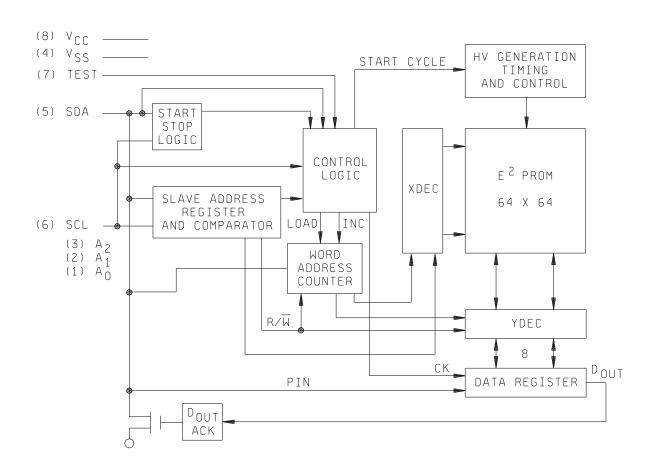
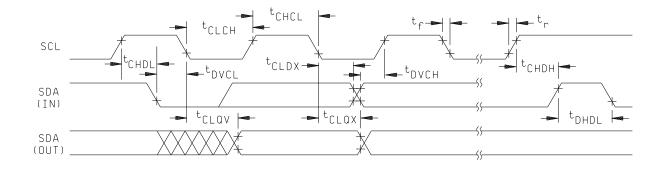
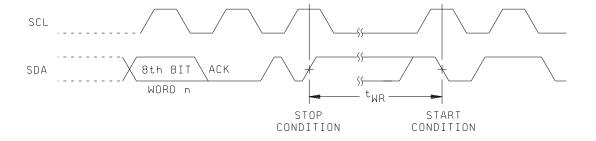


FIGURE 3. Block diagram.

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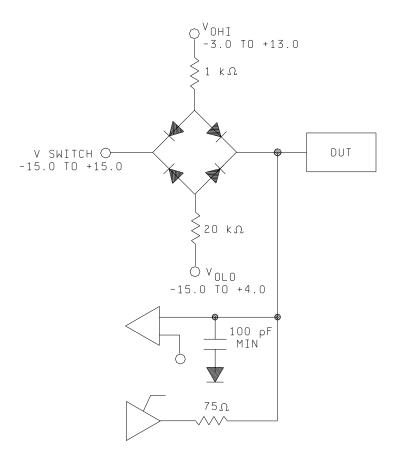
Read Cycle Timing



Write Cycle Timing

FIGURE 4. Switching waveforms.

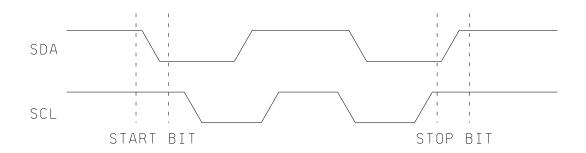
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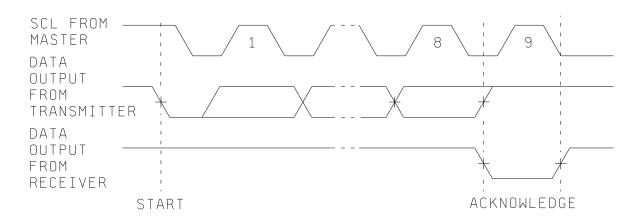
NOTE: V_{OHI} will be adjusted to meet load conditions I_{OL} = 3 mA of table I.

FIGURE 5. Switching load circuit.

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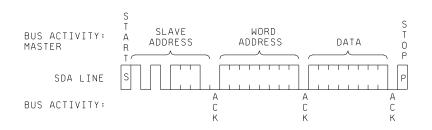
START/STOP condition



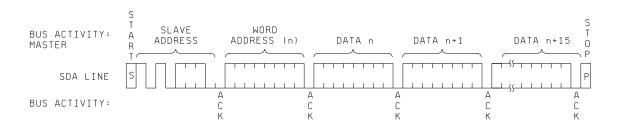
Acknowledge Response

FIGURE 6. Bus sequence diagrams.

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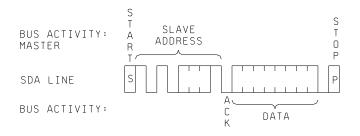
Byte write bus activity



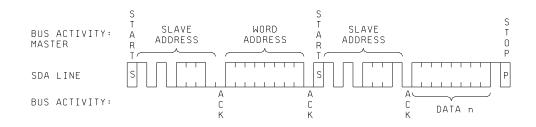
Page write bus activity

FIGURE 6. <u>Bus sequence diagrams</u> - Continued.

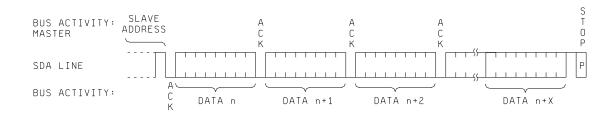
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Current address read bus activity



Random read bus activity



Sequential address read bus activity

FIGURE 6. Bus sequence diagrams - Continued.

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- 3.5 <u>Marking</u>. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). The part shall be marked with the part number listed in 1.2 herein. In addition, the manufacturer's part number may also be marked as listed in MIL-BUL-103 (see 6.6 herein).
- 3.6 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance submitted to DESC-EC prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change</u>. Notification of change to DESC-EC shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 <u>Verification and review</u>. DESC, DESC's agent and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.
- 3.10 <u>Processing EEPROM's</u>. All testing requirements and quality assurance provisions herein shall be satisfied by the manufacturer prior to delivery.
- 3.10.1 <u>Erasure of EEPROM's</u>. When specified, devices shall be erased in accordance with the manufacturer's test procedures or optionally all locations may be written to logic "1" in byte or page mode as specified in 4.4.
- 3.10.2 <u>Programmability of EEPROM's</u>. When specified, devices shall be programmed to the specified pattern using the procedures and characteristics specified in 4.4 and table I herein.
- 3.10.3 <u>Verification of state of EEPROM's</u>. When specified, devices shall be verified as either programmed to the specified pattern or erased. As a minimum, verification shall consist of reading the device per the procedures and characteristics specified in 4.4.1. Any bit that does not verify to be in the proper state shall constitute a device failure, and shall be removed from the lot.
- 3.11 Endurance. A reprogrammability test shall be completed as part of the vendor's reliability monitors. This reprogrammability test shall be done for initial characterization and after any design or process changes which may affect the reprogrammability of the device. The methods and procedures may be vendor specific, but shall guarantee the number of program/erase endurance cycles listed in section 1.3 herein over the full military temperature range. The vendor's procedure shall be kept under document control and shall be made available upon request of the acquiring or preparing activity, along with test data.
- 3.12 <u>Data retention</u>. A data retention stress test shall be completed as part of the vendor's reliability monitors. This test shall be done for initial characterization and after any design or process change which may affect data retention. The methods and procedures may be vendor specific, but shall guarantee the number of years listed in section 1.3 herein over the full military temperature range. The vendor's procedure shall be kept under document control and shall be made available upon request of the acquiring or preparing activity, along with test data.

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4. QUALITY ASSURANCE PROVISIONS

- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-STD-883 (see 3.1 herein).
- 4.2 <u>Screening</u>. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply.
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - Test condition D or F using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - 2. $T_A = +125^{\circ} C$, minimum.
 - 3. Prior to burn-in, the devices shall be programmed with a topological alternating bit pattern. The pattern shall be read before and after burn-in. Devices having bits not in the proper state after burn-in shall constitute a device failure and shall be included in the PDA calculation.
 - b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.
 - c. After the completion of all screening, the device shall be erased and verified prior to delivery.
- 4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.
 - 4.3.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 5 and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - c. Subgroup 4 (C_{I/O} and C_{IN} measurements) shall be measured only for the initial qualification and after any process or design changes which may affect capacitance. Sample size is 15 devices with no failures, and all input and output terminals tested.
 - d. Subgroups 7 and 8 shall test sufficient to verify the truth table.
 - e. All devices selected for testing shall be programmed with a checkerboard pattern or equivalent. After completion of all testing, the devices shall be erased and verified, (except devices submitted for groups B, C, and D testing).
 - 4.3.2 Groups C and D inspections.
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. All devices requiring end-point electrical testing shall be programmed with a topologically alternating bit pattern.
 - c. Steady-state life test conditions, method 1005 of MIL-STD-883.
 - Test condition D or F. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005.
 - 2. $T_A = +125^{\circ} C$, minimum.
 - 3. Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
 - d. After the completion of all testing, the device shall be erased and verified prior to delivery.

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TABLE II. Electrical test requirements. 1/2/3/

MIL-STD-883 test requirements	Subgroups (in accordance with method 5005, table I)
Interim electrical parameters (method 5004)	
Final electrical test parameters (method 5004)	1*,2,3,7*,8A,8B, 9,10,11
Group A test requirements (method 5005)	1,2,3,4**,7,8A,8B 9,10,11
Groups C and D end-point electrical parameters (method 5005)	1,2,3,7,8A,8B, 9,10,11

- 1/ (*) PDA applies to subgroup 1 and 7 (see 4.2a).
- 2/ Any subgroups at the same temperature may be combined when using a multifunction tester.
- 3/ (**) Indicates that subgroup 4 will only be performed during initial qualification or after a design or process change that may affect capacitance.
- 4.4 <u>Programming procedure</u>. The following procedure shall be followed when programming (write) is performed. The waveforms and timing relationships shown on figure 4 and the sequences of data transfers illustrated on figure 5 and the conditions specified in table I shall be adhered to. Information is introduced in a serial fashion: The sequence is to issue a start condition (SCL HIGH with a HIGH to LOW transition of SDA) followed by first the device address and the R/W bit of the data stream LOW. After receipt of an ACK response from the memory device 8 bits of data (one byte) is clocked into the device. The transfer is terminated and the data written into the E² array by issuing a stop condition (SCL HIGH with a LOW to HIGH transition of SDA).
- 4.4.1 <u>Read mode operation</u>. The following procedure shall be followed when reading data. A start condition will be issued to the device followed by device address and R/W bit set HIGH, the device will respond with an ACK and begin outputting data on subsequent clock pulses. The waveforms and timing relationships shown on figure 4 and the sequences of data transfers illustrated on figure 5 and the conditions specified in table I shall be adhered to.
 - 5. PACKAGING
 - 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-STD-883 (see 3.1 herein).
 - 6. NOTES
- 6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.
- 6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

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6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-973 using DD Form 1692, Engineering Change Proposal (Short Form). 6.4 Record of users. Military and industrial users shall inform the Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DESC-EC, telephone (513) 296-6047. 6.5 Comments. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444, or telephone (513) 296-5377. 6.6 Approved sources of supply. Approved sources of supply are listed in MIL-BUL-103. The vendors listed in MIL-BUL-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-EC. SIZE **STANDARDIZED** 5962-89590 Α MILITARY DRAWING **DEFENSE ELECTRONICS SUPPLY CENTER REVISION LEVEL** SHEET **DAYTON, OHIO 45444** 17 DESC FORM 193A

STANDARDIZED MILITARY DRAWING SOURCE APPROVAL BULLETIN

DATE: 94-05-31

Approved sources of supply for SMD 5962-89590 are listed below for immediate acquisition only and shall be added to MIL-BUL-103 during the next revision. MIL-BUL-103 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DESC-EC. This bulletin is superseded by the next dated revision of MIL-BUL-103.

Standardized	Vendor	Vendor
military drawing	CAGE	similar
PIN	number	PIN <u>1</u> /
5962-8959001PX	60395	X24C04DMB

1/ <u>Caution</u>. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE number

60395

Vendor name and address

XICOR, Incorporated 851 Buckeye Court Milpitas, CA 95035-7493

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in this information bulletin.